# MG132 treatment of worms

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An abbreviated version of this protocol was published in eLIFE in Jan 2019

SUMO peptidase ULP-4 regulates mitochondrial UPR-mediated innate immunity and lifespan extension

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## Detailed protocol

1. Worms are raised on NGM agar plates and fed with *E.coli* for 2 days, until they reach L4 stage.
2. Overnight cultured *E.coli* is centrifuged at 5000g for 5 min and the supernatant is discarded.
3. *E.coli* is resuspended by M9 buffer to OD600=1. 0.5mL M9 containing E.coli is added to a 1.5mL Eppendorf tube.
4. MG132 (sc-201270, Santa Cruz) or DMSO is added into the Eppendorf tubes. The final concentration of MG132 is100µM.
5. Worms are transferred into 1.5 mL microcentrifuge tubes and rotated on a vertical tube rotator at 20°C for 24h.

**How to cite:**（Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used）

1. Liu, Y. (2020). MG132 treatment of worms. Bio-protocol Preprint. bio-protocol.org/prep295.
2. Gao, K., Li, Y., Hu, S. and Liu, Y.(2019). SUMO peptidase ULP-4 regulates mitochondrial UPR-mediated innate immunity and lifespan extension. eLIFE. DOI: 10.7554/eLife.41792

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